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MERCK AND CO., INC			CHU, YONG LIANG	
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			1626	

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/521,508	HAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Yong Chu	1626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Ja 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-15 are subject to restriction and/or example.	vn from consideration.					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Claims 1-15 are currently pending in the instant application.

Priority

This application is a 371 of PCT/CA03/01306, filed on 25 August 2003.

Acknowledgement is made of Applicant's claim for U.S. Provisional Patent Application 60/406,530 under 35 U.S.C. §119(e), filed on 28 August 2002.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

Lack of Unity Requirement

Claims 1-15 are drawn to more than one inventive concept (as defined by PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2.

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1 (b), provides that "special technical features" mean those technical features, which, as a whole, define a contribution over the prior art.

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Annex B, Part 1 (e), provides combinations of different categories of claims and states:

"The method for determining unity of invention under Rule 13 shall be construed as permitting, in particular, the inclusion of any one of the following combinations of claims of different categories in the same international application:

- (i) in addition to an independent claim for a given product, an independent claims for a process specially adapted for the manufacture of the said product, and an independent claim for use of the said product, or
- (ii) in addition to an independent claim for a given process, an independent claim for an apparatus or means specially designed for carrying out the said process, or
- (iii) in addition to an independent claim for a given product, and independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for an apparatus or means specially designed for carrying out the said process,..."

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I: Claims 1-6 (in part, wherein Y^1 is -CH₂-CH₂-, or -CH=CH-; **A** and **W** are independently selected from a bond, or unsubstituted C₁₋₆ alkylene; and **Z** is O or S), and 12-15 are drawn to a compound or composition which contains at least one

compound of formula I

according to claim 1. If this group is elected,

Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

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Group II: Claims 1-6 (in part, wherein \mathbf{Y}^1 is -CH₂-CH₂-, or -CH=CH-; \mathbf{A} and \mathbf{W} are independently selected from a bond, or unsubstituted C_{1-6} alkylene; and \mathbf{Z} is

least one compound of formula I

according to claim 1. If this group is

elected, Applicant is requested to elect a single species for search purposes.

Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group III: Claims 1-6 (in part, wherein Y^1 is -CH₂-CH₂-, or -CH=CH-; **A** and **W** are independently selected from a bond, or unsubstituted C₁₋₆ alkylene; and **Z** is CH₂, HC=CH, or C=C), and 12-15 are drawn to a compound or composition which

contains at least one compound of formula I

according to claim 1. If

this group is elected, Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

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Group IV: Claims 1-6 (in part, wherein $\mathbf{Y^1}$ is -CH₂-CH₂-, or -CH=CH-; \mathbf{A} and \mathbf{W} are independently selected from a bond, or unsubstituted C₁₋₆ alkylene; and \mathbf{Z} is a disubstituted aryl or heteroaryl ring...), and 12-15 are drawn to a compound or

composition which contains at least one compound of formula I

according to claim 1. If this group is elected, Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition.

This group is subject to further restriction, if elected.

Group V: Claims 1-6 (in part, wherein Y^1 is -CH₂-CH₂-, or -CH=CH-; **A** and **W** are C₁₋₆ alkylene independently substituted with 1,2,3, or 4 halogen atoms; and **Z** is O or S), and 12-15 are drawn to a compound or composition which contains at least one compound

of formula I Real according to claim 1. If this group is elected, Applicant is

requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant

grouping definition. This group is subject to further restriction, if elected.

Group VI: Claims 1-6 (in part, wherein \mathbf{Y}^1 is -CH₂-CH₂-, or -CH=CH-; \mathbf{A} and \mathbf{W} are C₁₋₆ alkylene independently substituted with 1,2,3, or 4 halogen atoms; and \mathbf{Z} is

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least one compound of formula I

according to claim 1. If this group is

elected, Applicant is requested to elect a single species for search purposes.

Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group VII: Claims 1-6 (in part, wherein Y^1 is -CH₂-CH₂-, or -CH=CH-; **A** and **W** are C₁₋₆ alkylene independently substituted with 1,2,3, or 4 halogen atoms; and **Z** is CH₂, HC=CH, or $C \equiv C$), and 12-15 are drawn to a compound or composition which

contains at least one compound of formula I

discontinuity as summired

this group is elected, Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group VIII: Claims 1-6 (in part, wherein \mathbf{Y}^1 is -CH₂-CH₂-, or -CH=CH-; \mathbf{A} and \mathbf{W} are C₁₋₆ alkylene independently substituted with 1,2,3, or 4 halogen atoms; and \mathbf{Z} is a disubstituted aryl or heteroaryl ring...), and 12-15 are drawn to a compound or

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composition which contains at least one compound of formula I

according to claim 1. If this group is elected, Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition.

This group is subject to further restriction, if elected.

Group IX: Claims 1-6 (in part, wherein Y¹ is - ; A and W are independently selected from a bond, or unsubstituted C₁₋₆ alkylene; and Z is O or S), and 12-15 are drawn to a compound or composition which contains at least one compound of formula I

according to claim 1. If this group is elected, Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group X: Claims 1-6 (in part, wherein Y¹ is

; A and W are independently

selected from a bond, or unsubstituted C_{1-6} alkylene; and Z is), and 12-15 are drawn to a compound or composition which contains at least one compound of

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formula I according to claim 1. If this group is elected, Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant

grouping definition. This group is subject to further restriction, if elected.

Group XI: Claims 1-6 (in part, wherein Y^1 is X^1 ; **A** and **W** are independently selected from a bond, or unsubstituted X^1 ; **A** and **Z** is X^1 ; **A** and **Z** is X^2 ; **B** and **Z** is X^2 .

and 12-15 are drawn to a compound or composition which contains at least one

compound of formula I

according to claim 1. If this group is elected,

Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group XII: Claims 1-6 (in part, wherein Y^1 is Z^2 ; A and W are independently selected from a bond, or unsubstituted Z^2 ; alkylene; and Z^2 is a disubstituted aryl or heteroaryl ring...), and 12-15 are drawn to a compound or composition which contains

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at least one compound of formula I

according to claim 1. If this group

is elected, Applicant is requested to elect a single species for search purposes.

Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group XIII: Claims 1-6 (in part, wherein Y¹ is

; **A** and **W** are C₁₋₆ alkylene

independently substituted with 1,2,3, or 4 halogen atoms; and **Z** is O or S), and 12-15 are drawn to a compound or composition which contains at least one compound of

formula I

according to claim 1. If this group is elected, Applicant is

requested to elect a single species for search purposes. Applicant is also requested

to list all the compounds in claim 6 which fit in this group according to the instant

grouping definition. This group is subject to further restriction, if elected.

Group XIV: Claims 1-6 (in part, wherein Y¹ is

; A and W are C₁₋₆ alkylene

independently substituted with 1,2,3, or 4 halogen atoms; and Z is

12-15 are drawn to a compound or composition which contains at least one compound

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of formula I according to claim 1. If this group is elected, Applicant is requested to elect a single species for search purposes. Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group XV: Claims 1-6 (in part, wherein Y¹ is ; A and W

independently substituted with 1,2,3, or 4 halogen atoms; and **Z** is CH₂, HC=CH, or C=C), and 12-15 are drawn to a compound or composition which contains at least

one compound of formula I

according to claim 1. If this group is

elected, Applicant is requested to elect a single species for search purposes.

Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group XVI: Claims 1-6 (in part, wherein Y^1 is ; A and W are C_{1-6} alkylene independently substituted with 1,2,3, or 4 halogen atoms; and Z is a disubstituted aryl or heteroaryl ring...), and 12-15 are drawn to a compound or composition which contains

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at least one compound of formula I

according to claim 1. If this group

is elected, Applicant is requested to elect a single species for search purposes.

Applicant is also requested to list all the compounds in claim 6 which fit in this group according to the instant grouping definition. This group is subject to further restriction, if elected.

Group XVII: Claims 7-11 are drawn to a method for treating disorders related to elevated intraocular pressure by... in need of such treatment a therapeutically effective amount of a compound of claim 1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

The claims herein lack unity of invention under PCT Rules 13.1 and 13.2 because, pursuant to 37 C.F.R. 1.475(a) **Groups I-XVII** lack unity of invention since under 37 CFR 1.475:

Where a group of inventions is claimed in an application, the requirement of unity of invention shall be fulfilled only when there is a technical feature among those inventions involving one or more of the same or corresponding special technical features...those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

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The structural moiety common to **Groups I-XVI** is ______. There is special technical feature, because it fails to define a common core structure that can link as to form a single general inventive concept and there is a lack of unity of invention. The variables vary extensively and when taken as a whole result in vastly different compounds. Additionally, the vastness of the claimed subject matter and the complications in understanding the claimed subject matter impose a serious burden on any examination of the claimed subject matter.

Because the claims do not relate to a single general inventive concept under PCT Rule 13.1 and lack the same or corresponding special technical features, the claims lack unity of invention and should be limited to <u>a</u> product, <u>a</u> process for the manufacture of said product, or <u>a</u> method of use.

Moreover, according to 37 CFR 1.475(c), If an application contains claims to more or less that one of the combinations of categories of invention set forth in paragraph (b), unity of invention might not be present.

In the instant case the claims are drawn to more than one product, process, and method of use. According to 37 CFR 1.475(e),

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim.

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As a result, the claims lack unity of invention and applicant is required to elect a single invention.

The claims directed to a single method of preparation and a single method of use will be examined along with the elected invention so long as it is commensurate in scope therewith.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even if the restriction requirement is traversed (37 CFR 1.143).

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed Yong Chu whose telephone number 571-272-5759. The examiner can normally be reached on 7:00 am - 3:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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